ABSTRACT

A water pumping device includes a reservoir for receiving water, a motor coupled to the reservoir to pump the water out of the reservoir, a resistor coupled to the motor, a comparator circuit

5   coupled to the resistor, the resistor may be used to generate a voltage signal and to send the voltage signal to the comparator circuit, and to determine whether the motor is loaded or unloaded. A power supply circuit is coupled to the motor and coupled in series with the resistor. A control device is coupled to the comparator

10   circuit, to switch off the power supply circuit and to turn off the motor when the motor is unloaded or do not pump water, and to maintain the driving of the motor when the motor is still loaded.